

Title (en)

Method and device for imaging an interior of an optically turbid medium

Title (de)

Verfahren und Vorrichtung zur Abbildung des Inneren eines optisch trüben Mediums

Title (fr)

Procédé et dispositif d'imagerie de l'intérieur d'un milieu optiquement trouble

Publication

**EP 2057941 A1 20090513 (EN)**

Application

**EP 07120133 A 20071107**

Priority

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Abstract (en)

The invention relates to a method and a device (30, 125) for imaging an interior of an optically turbid medium (40). Light from a light source (35) is coupled into the turbid medium (40). Detection light emanating from the turbid medium (40) as a result of coupling (5) light from the light source (35) into the turbid medium (40) is collected. A first characteristic and a second characteristic of collected detection light are measured simultaneously. Next, the ratio of a first linear combination of the measured characteristics and a second linear combination of the measured characteristics is taken based on the recognition that the noise in both linear combinations is correlated.

IPC 8 full level

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Citation (search report)

- [Y] WO 2006063246 A1 20060615 - GEN HOSPITAL CORP [US], et al
- [Y] US 2006184040 A1 20060817 - KELLER KURTIS P [US], et al
- [A] US 2007024946 A1 20070201 - PANASYUK SVETLANA V [US], et al
- [A] WO 03008945 A1 20030130 - ART ADVANCED RES TECHNOLOGIES [CA], et al

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